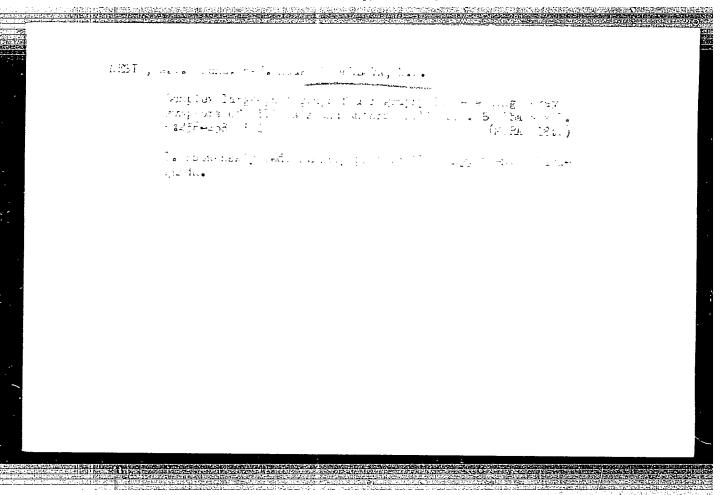
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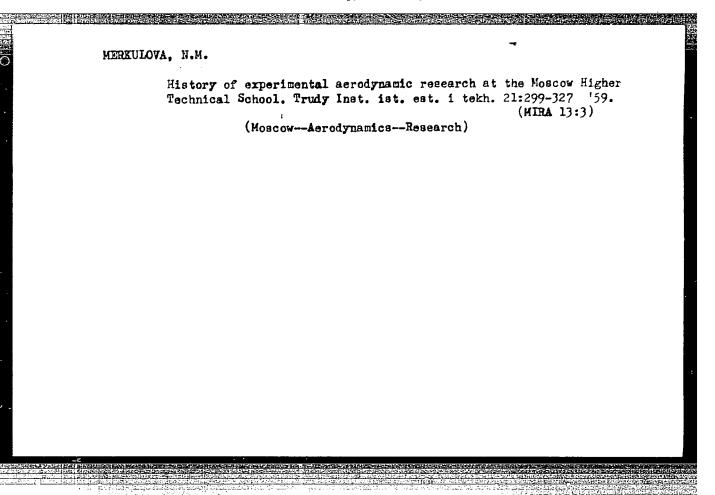
applied. One or two days later the cortex was uncovered without anesthesia and electric stimuli were applied before and after callosum dissection. In the third experiment under chronic conditions, respiratory center activity of animals was observed 24 hrs after partial removal of the right or left hemisphere cortex under anesthesia. In all three experiments, respiration activity was recorded by a multiple pneumograph. Respiration movements were recorded by a piezopickup. An induction coil and an ES-4 stimulator served as electric stimuli and were applied with varying intensities to symmetric cortex sections. Findings indicate that asymmetric respiratory activity is conditioned by the functional state of the cerebral cortex. Asymmetric respiratory activity may be expressed in respiration depth, respiratory muscle tone, and type of respiration. Findings do not confirm the concept of specific respiratory centers existing in the cortex which control the nature and degree of respiratory change in the right or left side of the thorax. and left sides of the respiratory center may be affected in entirely The right different ways by the cortex of each cerebral hemisphere depending on degree of injury and degree of decussation and corticoreticular fiber development. Orig. art. has: 4 figures.

Card 2/3

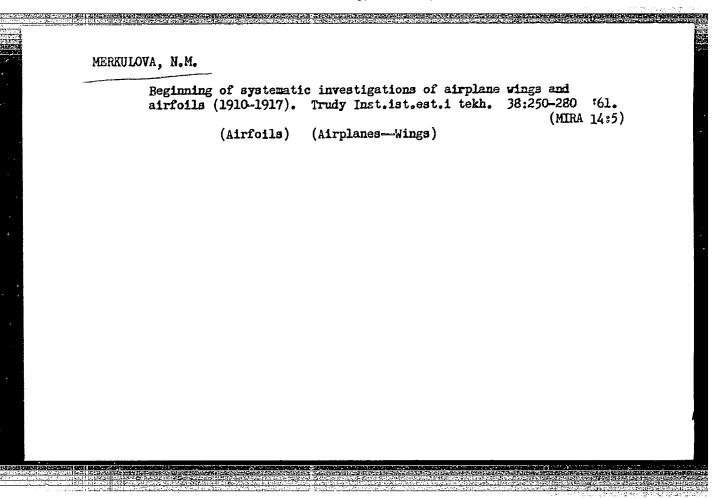
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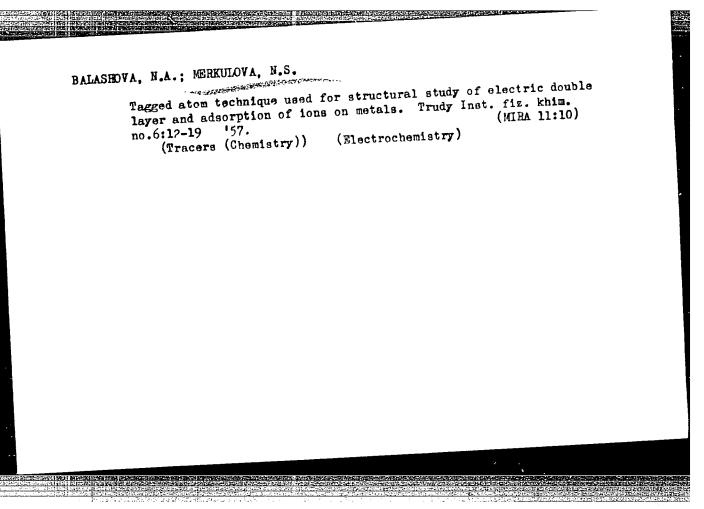
# MERCULOVA, N.D. Use of a cationite for the removal of zinc from waste waters. Knir., volok. no.1:53-56 '61. (MI-A 14:2) 1. Mogilevskiy zavod. (Somage--Purification)





MERKULOVA, N. M., Cend Tech Sci (diss) -- "The development of experimental aero-dynamic investigations of airplane wings". Moscow, 1960, published by the Acad Sci USSR, 21 pp (Acad Sci USSR, Inst of the History of Natural Sci and Tech), 175 copies (KL, No 14, 1960, 133)





24087 S/186/60/002/006/012/026 A051/A129

Balashova, N. A., Merkulova, N. S.

TITLE:

The admorption-electrochemical method of separating radioactive

zircomum and niobium

Radiokhimiya, v. 2, no. 6, 1960, 699 - 703 PERIODICAL:

The authors, investigated in 1953 a method for separating radioactive zirconium and niobium in aqueous solutions containing in many cases low concentrations of stable isotopes of these elements. The method is based on the use of the difference between the adsorption properties of the zirconium and niobium ions under specially chosen experimental conditions. These conditions are determined by the different state of the ions of these elements in the electrolyte solutions. Nitrate and fluoride solutions of zirconium and niobium salts were used in the experiments. It was noted that in strong cathode polarization pure niobium is deposited on platinum or stainless steel from nitrate or fluoride solutions of a mixture of zirconium and niobium salts, whereas zirconium remains in solution. The hydrogen deposit potential on pla-

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24087

s/186/60/002/006/012/026 a051/a129

The adsorption-electrochemical method ....

tinum from the acid solution of potassium fluoride was 0.03 M containing niobium and zirconium in concentrations of the order of 10-10 M. Tests showed that the greatest quantity of niobium passes to the electrode at the lowest positive value of the potential. Experiments on separation of niobium from solutions where zirconium is present showed that pure niobium or niobium with various contents of zirconium can be produced.depending on the potential and concentration of these elements in the solution. The deposition of zirconium and niobium in several stages shows the best results. Attention is drawn to the fact that niobium 95 is produced in the solution due to the radioactive decay of zirconium95 thus causing impurities in zirconium. If oxalate ions are present in solution the method mentioned cannot be applied. It is suggested that first the oxalate ion be destroyed by oxidation on the anode, then to continue the electrolysis with deposition of niobium. The results obtained led to the conclusion that complete separation of zirconium and niobium is possible by the method suggested. This method is also recommended for a rapid qualitative radiochemical analysis of the isotope mixture of Zr95 and Nb95 at low concentrations of the latter in the solution. In this case it is suggested depositing niobium on the cathode and carrying out a separate analysis of cathode

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The adsorption-electrochemical method ....

and solution. Various methods are considered for the removal of niobium from the platinum or steel cathodes. One of these is the use of the action of nitric acid to transfer niobium to the solution. It is pointed out that an incomplete transfer of pure niobium is achieved here with only 70 - 90% an incomplete transfer of pure niobium is achieved here with only 70 - 90% of the initial amount removed in one hour. There are 4 figures and 20 references: 12 Soviet-bloc and 8 non-Soviet-bloc. The references to the most recent English language publications read as follows: R. E. Connick, W. H. cent English language publications read as follows: R. E. Connick, W. H. Chem. Soc., 73, 3, 1171, 1951; B. A. J. Lister, L. A. Mac-Donald Reas, J. Am. Chem. Soc., 73, 3, 1171, 1951; B. A. Gammil, J. Am. Chem. Soc., 72, 8, 3615, 1950; M. E. Helt, J. Electroch. Scc., 98, 1, 33, 1951.

SUBMITTED: January 11, 1960.

Card 3/3

211088

S/186/60/002/006/013/026 A051 A129

21:4200

Balshova, N. A.; Merkulova, N. S.

TITLE:

AUTHORS:

Adsorption-electrochemical separation of radioactive cerium

and prasedly nium

PERIODICAL:

Radiokhimiya, v. 2, no. 6, 1960, 704 - 710

TEXT: The principles for rapid separation of derium and praseodymium were developed in 1953 based on a study of the adsorbability of their ions on metals at various potentials. A method is described for separating microquantities of derium and praseodymium from their mixture in additionitrate solutions or on a metal surface. It is shown that detium is transferred from the solution onto the electrodes made of platinum or stainless steel at potentials of over 1.5 v (as against the normal hydrogen electrode) and praseodymium remains in the solution. Praseodymium is transferred to the addition from the mixtures of derium and praseodymium on the metal surface under the same conditions and derium remains on the metal. The authors based their work on the theory that the difference in the potentials of transfer of the triple-charge derium and praseodymium ions to the tetra-charge ions should be appropried by different adsorbability

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3/186/60/002/006/013/026 A051/A129

Adsorption-electrochemical separation of ....

of these ions on the surface of the metal at various potentials. The experiments were conducted with acidio nitrate solutions of cerium and praseodymium containing only the radioastive isotopes of these elements. Celtt and Prillt, in radiochemical concentrations. All measurements of the value of the maximum energy of the beta-particles were connected on a frontal counter by the abscrption method of radiation in aluminum. The experimental results showed that derium and praseodymium are adsorbed or the electrode at potentials between that of the hydrogen formation and up to plus ... in the same quantitative ratio, in which they are found in the solution according to their radicehemical equilibrium. An increase in the electrode activity takes place due to accumulation and an activity decrease of the solution due to the lacay of presendymium. Thus, cerium remains on the electrode and praseodymium is the epitation, disrupting the radioactive equilibrium. The increase in the activity of the electrone with the simultaneous drop in the activity of the solution is noted only when the electrode is taken out under a polarizing current without changing its potential (over 1.6 v). The separation confficient of cerium and praseodymium according to the given data is 1.4 for the single separation and 5.1 for the four-fold separation. The conditions of washing cerium to remove the mother liquor from 1t is said to be an important factor for obtain-

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### "APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001033

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S/186/60/002/006/013/026 A051/A129

Adsorption-electrochemical separation of ....

ing pure cerium on the electrode. It should always take place under anode polarization at a potential less than 1.6 v in diluted HNO3. The desorption of praseodymium from platinum and steel takes place in pure, diluted acid (HNO3, H2SO4, HClO4, HCl, etc.) or directly in the solution from which the adsorption took place, HClO5, HClO6, HC

SUBMITTED:

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January 11, 1960

Card 3/3

KHASIN, A.Z.; MERKULOVA, N.S.; KASHCHEYEV, V.D.

Square pulse generator for electrochemical investigations.

Elektrokhimiia l no.9:1142-1145 S '65. (MIRA 18:10)

1. Institut elektrokhimii AN SSSR.

MERKULOVA, N.V.

Treatment of multiple myeloma with sarkolysine. Vop. onk. 10 (MIRA 17:8) no.3:51-57 '64.

1. Iz khimioterapevticheskogo otde niya (zav. - doktor med. nauk V.I. Astrakhan) Instituta eksperimental noy i klini-cheskoy onkologii AMN SSSR (direktor i zaveduyushchiy klini-cheskim otdelom - deystvitel nyy chlen AMN SSSR prof. N.N. Blokhin). Adres avtora: Moskva, D-367, Volokolamskoye shosse, d.30. Institut eksperimental noy i klinicheskoy onkologii AMN SSSR.

TAGER, I.L., prof.; MERKULOVA, N.V.; TSESHKOVSKIY, M.S.

Nature of reparative processes in the bones of patients with myeloma treated with sarcolysine. Vest. rent. i rad. 40 no.2:13-17 Mr-Ap '65. (MIRA 18:6)

1. Rentgeno-radiologicheskiy otdel (zav.- prof. I.L. Tager), otdeleniye khimioterapii (zav.- doktor med. nauk V.I. Astrakhan) Instituta eksperimental'noy i klinicheskoy onkologii AMN SSSR, Moskva.

IPAT'YEV, V.V.; MERKULOVA, O.P.; TEODOROVICH, V.P.

Investigation of the rate of the removal of carbon from 30EhMA
steel pipes in a hydrogen atmosphere. Zhur.prikl.khim. 31 no.12:
1891-1894 D '58.

(MIRA 12:2)

1. Leningradskiy institut po pererabotke nefti i polucheniyu iskusstvennogo zhidkogo topliva.
(Hydrogen)

(Pipe, Steel)

IPAT\*YEV, V.V. [deceased]; TEODOROwICH, V.P.; GREESHKOVA, I.D.; MERKULOVA, G.P.

Corrosion of metals in hydrogen sulfide at high temperatures. Khim.

sera-i azotorg.soed.sod.v neft.i nefteprod. 3:419-430.160. (MRA 14:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut neftekhimicheskikh

protsessov.

(Metals—Corrosion) (Hydrogen sulfide)

MERKULOVA, O.P.; NEMIROVSKII, A.N.; PREYS, M.O.; TEODOROVICH, V.P.

Some considerations on the corrosion of squipment of pressure distillation units used for processing shale tar. Khim. i tekh. tillation units used for processing shale tar. Khim. i tekh. tillation units used for processing shale tar. Khim. i tekh. tillation units used for processing shale tar. Khim. i tekh. tillation units used for processing shale tar. Khim. i tekh. tillation units used for processing shale tar. Khim. i tekh. tillation units used for processing shale tar. Khim. i tekh. tillation units used for processing shale tar. Khim. i tekh. tillation units used for processing shale tar. Khim. i tekh. tillation units used for processing shale tar. Khim. i tekh. tillation units used for processing shale tar. Khim. i tekh. tillation units used for processing shale tar. Khim. i tekh. tillation units used for processing shale tar. Khim. i tekh. tillation units used for processing shale tar. Khim. i tekh. tillation units used for processing shale tar. Khim. i tekh. tillation units used for processing shale tar. Khim. i tekh. tillation units used for processing shale tar. Khim. i tekh. tillation units used for processing shale tar. Khim. i tekh. tillation units used for processing shale tar. Khim. i tekh. tillation units used for processing shale tar. Khim. i tekh. tillation units used for processing shale tar. Khim. i tekh. tillation units used for processing shale tar. Khim. i tekh. tillation units used for processing shale tar. Khim. i tekh. tillation units used for processing shale tar. The tillation units used for processing units used f

S/064/61/000/003/008/009 B101/B203

AUTHORS:

Mayorov, D. M., Merkulova, O. P., Mushenko, D. V.,

Teodorovich, V. P.

TITLE:

Selection of material for the apparatus of direct hydro-

genation of higher fatty acids

PERIODICAL: Khimich

Khimicheskaya promyshlennost', no. 3, 1961, 62-64

TEXT: In connection with the development of the production process of higher aliphatic alcohols by direct hydrogenation of fatty acids, the problem of selecting suitable corrosion-resisting material for the apparatus arose. The present paper reports on corrosion tests. Two methods were applied: 1) To select the material for the hydrogenation vessel and the separator, metal specimens were tested directly in the reaction vessel of the hydrogenation plant at 340°C, 300 atm, or in the separator. After testing for 1978 hr, the following corrosion rates (mm per year) were found: CT -20 (St-20) steel 7.0; 1x13 (1kh13) steel 0.4; 1x18H9T (1kh18N9T) steel 0.002; 1x18H12M2T (1kh18N12M2T) 0.01; 3M-435 (EI-435) 0; industrial aluminum 0.08. 2) The material for the heat exchangers was

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Selection of material for ...

S/064/61/000/003/008/009 B101/B203

tested by heating the specimens with the fatty acids ( $c_7 - c_{20}$ ) in an autoclave at 5 atm hydrogen pressure up to 150°C. For less important parts, they were heated in a thermostat to 50°C. Table 5 gives the experimental data (mm per year). Testing of the electrically welded seams (analysis of electrodes, Table 4) by method 2 showed that the seams were also resistant. In a test plant, various metals were tested for corrosion resistance during hydrogenation of  $c_7$  -  $c_9$  and  $c_{10}$  -  $c_{16}$  acids at 230°C and 300 atm. It was found that steels with 18-20% Cr were sufficiently resistant. Test results of metals and welding seams at 100° and 150°C in an autoclave are given in Table 8. The widely used 1Kh18N9T steel proved to be suitable. Testing for intergranular corrosion (t =  $230^{\circ}$ C, p = 300 atm) of untreated and thermally treated specimens of this steel showed corrosion rates of 0.001 mm/year in both cases. A hydrogenation apparatus made of this steel has been operating 4 years now. Low-alloy steels (EI-579) are suited for temperatures up to 50°C. For temperatures between 70 and 150°C, the steel must contain at least 13% of chromium. Aero-fireclay bricks proved to be stable in tests during 200 hr at 100 and 150°C in the presence of  $C_{10}$  -  $C_{16}$  acids. There are 9 tables Card 2/5

S/064/61/000/003/008/009 B101/B203 Selection of material for .... and 1 Soviet-bloc reference. ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut neftekhimicheskikh protsessov (All-Union Scientific Research Institute of Petrochemical Processes) Таблица 4 Химический состав наплавленного металла электродов, использованных для сварки сталей IX18H9T и IX18H12M2T (%) **1**Тип наплав-С Si Mn Cr Ni Mo Nb ленного металла \$\text{LUI-11} \\ \text{.} \\ \text{.} 0.9 0.008 0.02 - 0.004 0.015 - 0.01 0.017 0,9 0,007 0,011 Table 4 Legend to Table 4: 1) Type of metal welded-on. 2) TsL-11. 3) ENTU-3. 4) KTI-5. 5) TsT-15. Card 3/5

S/064/61/000/003/008/009 B101/B203

Selection of material for ...

Таблица 5 Скорость коррозии металла (м.м./год)								
	8, Teum	енпература		атура				
A Merana 50°	203	150°	А Металя	ço,	150			
3 CT- 20	0.35	4,0	49И-943 .	0,002	0,001			
73N-579 51X13 61X18H9T	.0,0007 .0,001 0,002	0.07	эАлюминий техин- ческий ИСплав А1+Ми	0,002	0,025 0,03			
X18H12M2T . ЭИ-432	0,001	0,002	ИМедь ДЛатунь	_	0.03 0,02			

Table 5
Legend to Table 5: 1) Netal. 2) Temperature. 3) St-20. 4) EI-579.
5) 1Kh13. 6) 1Kh18N9T. 7) 1Kh18N12M2T. 8) EI-432. 9) EI-943.
10) Industrial aluminum. 11) Alloy. 12) Copper. 13) Brass.

Card. 4/5

Selection of material for	•••	S/064/61/000/003/008/009 B1 <b>01/B203</b>	)
Скарость ка	ррозни металлов в жирных кисло (автоклав с мешалкся)	Talieura 81	
<b>Л</b> Мерка метала	Скорость кор- розии, ми/год 100° 150° 4 Марка металла	100 <sup>2</sup> 150 .	
Legend to Table 8: 1) Type 3) Copper. 4) Brass. 5) 8) 1Kh13. 9) 1Kh18Nov. 10)	0.02 0 47c электродами 1/11/11 41 ЭНТУ-3 47 КТИ-5	0.01 0.03 - 0.04 0.04 0.08 - 0.003 0.003 0.001	
waya i an i dan iya i barata da a a a a a a a a a a a a a a a a a			

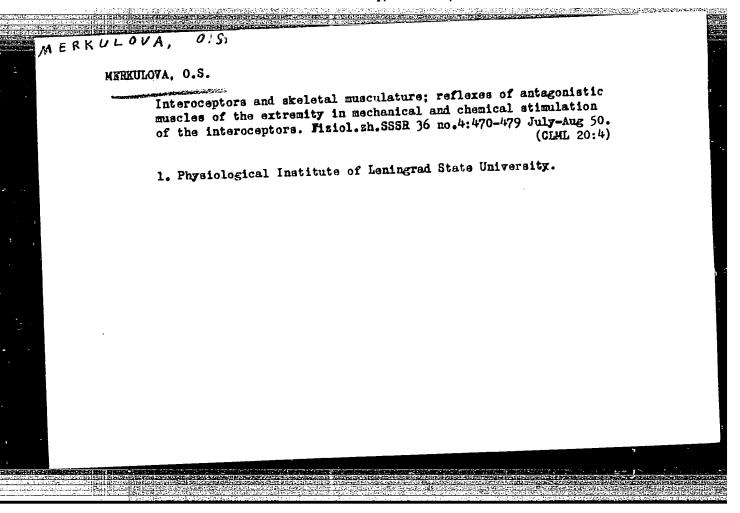
MAYOROV, D.M.; MERKULOVA, O.F.; MUSHENKO, D.V.; TEODOROVICH, V.P.

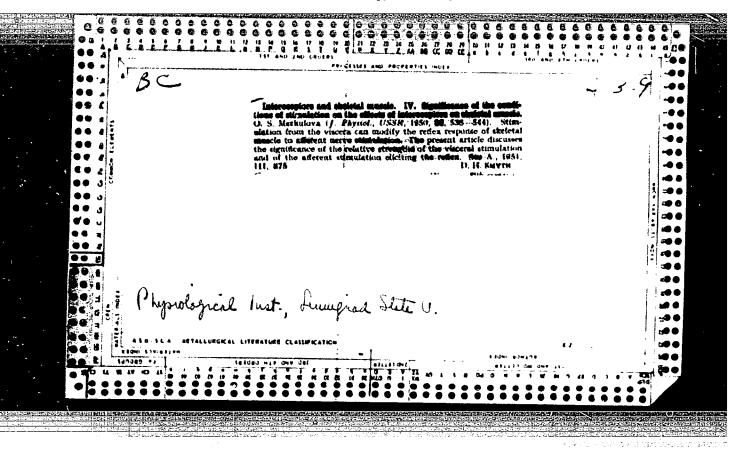
Selection of materials for the units performing the direct hydrogenation of higher fatty acids. Khim.prom. no.3:210-212 Kr '61.

(KIRA 14:3)

1. Vsesoyuznyy nmichno-issledovatel'skiy institut neftekhimi-cheskikh protsessov.

(Acids, Fatty) (Hydrogenation)





MERKULOVA. O.S.

Effect of stimulation of interoceptors on skeletal muscles in conditions of motor and sensory domination. Fiziol. zh. SSSR 37 no.5:614-620 Sept-Oct 51. (CIML 21:4)

1. Laboratory of the Physiology of Receptors, Institute of the Physiology of the Central Nervous System, Academy of Medical Sciences USSR, Leningrad.

MERKULOVA. O.S.; CHERNIGOVSKIY, V.N., professor, devstvitel nyy chlen Akademii meditsinskikh nauk SSSR, zaveduyushchiy; BYKOV, K.M., akademik, direktor.

Interoceptors and skeletal muscles. First report: General description of the effect of stimulation of the interoceptors upon skeletal muscles. Vop.fiziol. int. no.1:323-338 '52. (MLRA 6:8)

1. Laboratoriya fiziologii retseptorov Instituta fiziologii im. I.P.Pavlova Akademii nauk SSSR (for Chernigovskiy). 2. Institut fiziologii im. I.P. Pavlova Akademii nauk SSSR (for Bykov). 3. Akademiya meditsinskikh nauk SSSR (for Chernigovskiy). (Nervous system) (Musculoskeletal system)

MERKULOVA, O.S.; CHERNIGOVSKIY, V.N., deystvitel'nyy chlen akademii meditsinskikh nauk SSSR, zaveduvushchiy; BYKOV, K.M., akademik, direktor.

Intercoeptors and skeletal muscles. Second report: Role of conditions of stimulation in the mechanism of intercoentive effects upon the skeletal muscles. Vop.fiziol.int. no.1:339-352 '52. (MLHA 6:8)

1. Laboratoriya fiziologii retseptorov Instituta fiziologii im. I.P.Pavlova Akademii nauk SSSR (for Chernigovskiy). 2. Institut fiziologii im. I.P.Pavlova Akademii nauk SSSR (for Bykov). 3. Akademiya meditsinskikh nauk SSSR (for Chernigovskiy). (Misculoskeletal system)

MERKULOVA, O.S.; CHERNIGOVSKIY, V.N., professor, deystvitel nyy chlen akademii meditsinskikh nauk SSSR, zaveduyushchiy; BYKOV, K.M., akademik, direktor.

Interoceptors and skeletal muscles. Third report: Role of the afferent impulses in interoceptor ("starting") effects upon the skeletal muscles. (MLRA 6:8) Vop.fiziol.int. no.1:353-358 '52.

1. Laboratoriya fiziologii retseptorov Instituta fiziologii im. I.P.Pavlova Akademii nauk SSSR (for Chernigovskiy). 2. Institut fiziologii im. I.P. Pavlova Akademii nauk SSSR (for Bykov). 3. Akademiya meditsinskikh nauk SSSR (for Chernigovskiy). (Misculoskeletal system) (Nervous system)

MERKULOVA, O.S.; CHERNIGOVSKIY, V.H., professor, deystvitel nyy chlen akademii meditsinskikh neuk SSSR, zaveduyushchiy; BYKOV, K.H., akademik, direktor.

Interoceptors and skeletal muscles. Fourth report. Interoceptor effects upon the skeletal muscles in hypoglycemia. Vop.fiziol.int. no.1:359-368 '52.

(MLRA 6:8)

1. Laboratoriya fiziologii retseptorov Instituta fiziologii im. I.P.Pavlova Akademii nauk SSSR (for Chernigovskiy). 2. Institut fiziologii im. I.P. Pavlova Akademii nauk SSSR (for Bykov). 3. Akademiya nauk meditsinskikh nauk SSSR (for Chernigovskiy).

(Musculoskeletal system) (Nervous system) (Blood--Diseases)

THE REPORT OF THE PROPERTY OF

MERKULOVA, O.S.; CHERNIGOVSKIY, V.N., professor, deystvitel nyy chlen akademii meditsinskikh nauk SSSR, zaveduyushchiy; BYKOV, K.M., akademik, direktor.

Interoceptors and skeletal muscles. Fifth report: Role of different sectors of the nervous system in the realization of interoceptive effects upon the skeletal muscles. Vop.fiziol.int. no.1:369-381 '52. (MLRA 6:8)

1. Laboratoriya fiziologii retseptorov Instituta fiziologii im. I.P.Pavlova Akademii nauk SSSR (for Chernigovskiy). 2. Institut fiziologii im. I.P.Pavlova Akademii nauk SSSR (for Bykov). 3. Akademiya meditsinskikh nauk SSSR (for Chernigovskiy). (Nervous system) (Musculoskeletal system)

MERKULOVA, O.S.; CHERNIGOVSKIY, V.N., professor, deystvitel nyy chlen Akademii meditsinskikh nauk SSSR, zaveduyushchiy; BYKOV, K.M., akademik, direktor.

Interoceptors and skeletal muscles. Sixth report: Interoceptive effect upon the skeletal muscles under the conditions of shifts of the acid-base equilibrium toward alkalosis and acidosis. Vop.fiziol.int. no.1:382-389 (MLRA 6:8)

1. Laboratoriya fiziologii retseptorov Instituta fiziologii im. I.P.Pavlova Akademii nauk SSSR (for Chernigovskiy). 2. Institut fiziologii im. I.P.Pavlova Akademii nauk SSSR (for Bykov). 3. Akademiya meditsinskikh nauk SSSR (for Chernogovskiy).

(Mervous system) (Musculoskeletal system) (Physiological chemistry)

MERKUIOVA, O.S.; CHEHNIGOVSKIY, V.N., professor, deystvitel nyy chlen akademii meditsinskikh nauk SSSR, zaveduyushchiy; BYKOV, K.M., akademik, direktor.

Interoceptors and skeletal muscles. Seventh report: Certain considerations on interoceptive effects on skeletal muscles. Vop.fiziol.int. no.1:390-395 '52. (MLRA 6:8)

1. Leboratoriya fiziologii retseptorov Instituta fiziologii im. I.P.Pavlova Akademii nauk SSSR (for Chernigovskiy). 2. Institut fiziologii im. I.P.Pavlova Akademii nauk SSSR (for Bykov). 3. Akademiya meditsinskikh nauk SSSR (for Chernigovskiy). (Nervous system) (Musculoskeletal system)

MERKULOVA, O.S. USSR/Medicine - Pathophysiology

FD-2560

Card 1/1

Pub. 17-13/23

Author

: Merkulova, O. S.; Ratner, M. Ya.

Title

THE PROPERTY OF THE PARTY OF TH : On the mechanism of action of renin. Report I: Action of renin on the chemoceptors of the kidney and the small intestine

Periodical

: Byul. eksp. biol. i med. 5, 45-50, May 1955

Abstract

: Investigated the reflex action of renin on the chemoceptors of the kidney and small intestine by conducting perfusion experiments on the isolated kidney and a portion of the small intestine of cats.

Graphs. Five references, one of them USSR (1954).

Institution

: Laboratory of Physiology of Receptors (Head - Prof. V. N. Chernigovskiy, Member of the Academy of Medical Sciences USSR), Laboratory of Pathophysiology (Head - Prof V. S. Galkin), and the Therapy Department (Head - Prof M. V. Chernorutskiy, Member of the Academy of Medical Sciences USSR) of the Institute of Physiology imeni I. P. Pavlov (Director-Academician K. M. Bykov) of the Academy

of Sciences USSR, Leningrad

Submitted

: November 18, 1954 by V. N. Chernigovskiy, Member of the Academy of

Medical Sciences USSR

KARAYEV, Abdulla Ismail-ogly; MERKULOVA, O.S., red.; ODZHAKHVERDIZADE, S.R., red.; VASILEVSKIY, Ya.B., red.izd-va; POGOSOV, V.A., tekhn.red.

[Interoreceptors and metabolism] Interoretseptory i obmen veshchestv.
Beku, Izd-vo Akad.nauk Azerbaidzhanakoi SSR, 1957. 379 p. (MIRA 11:4)

(Metabolism) (Receptors (Physiology))

MerKukova MERKULOVA, O.S. Effect of epileptogenic stimulation, comphorated oil and pyramidon, on chemoreceptors of the small intestine [with summary in English]. Biul.eksp.biol. i med. 43 no.4:73-77 40 '57. 1. Iz laboratorii patologicheskoy fiziologii (zav. - prof. V.S.Galkin) Instituta fiziologii imeni I.P.Pavlova (dir. - akademik K.M.Bykov) AN SSSR, Leningrad. Predstavlena deystvitel nym chlenom AMM SSSR prof. V.H. Chernigovskim. (BLOOD PRESSURE, eff. of stimulation of small intestine with aminopyrine & camphorated oil) (INTESTINE, SMALL, physiol. eff. of stimulation with aminopyrine & comphorated oil on blood pressure) on stimulation of small intestine in cat, eff. on blood (AMINOPYRINE, off. pressure) (CAMPHOR, eff. dame)

#### MERMULOVA, O.S.

Reflex mechanism of camphor- and pyremidone-induced experimental epilepsy. Dokl. AM SSSR 112 no.5:968-971 F '57. (NLRA 10:4)

l. Institut fiziologii im. I.P. Pavlova Akademii nauk SSSR. Predstavleno akademikom K.M. Bykovym.
(EPILEPSY)

MERRILOVA, Ol'ga Sergeysvna; CHERNIGOVSKIY, V.H., otv.red.; BIANKI,
V.L., red.izd-va; TARASOV, G.A., red.izd-va; KRUGELKOVA,
H.A., tekhn.red.

[Interoceptors and skeletal musculature] Interotseptory i
skeletnala muskulatura. Moskva, Izd-vo Akad.nauk SSSR,
1959. 238 p.

(MIRA 12:6)

1. Chlen-korrespondent AN SSSR (for Chernigovskiy).

(HERVOUS SYSTEM) (MUSCULOSKELETAL SYSTEM)

CANELINA, I.Ye.; ZIMOYAYA, N.G.; IL'INSKIY, O.B.; LEBEDEVA, V.A.;

MARTYNYIK, V.K.; MERKULOYA, O.S.; MUSYASHCHIKOYA, S.S.;

MIAGRAIA, I.P.; OSADCHIY, L.I.; POPOYA, T.V.; SEREBERRIKOY, I.S.;

TYUTHYUMOYA, Z.I.; CHERNICHENKO, V.A.; YAROSHEYSKIY, A.Ia.

Intercoeptive component in the development of certain pathological states. Trudy Inst.fiziol. 8:240-253 '59. (NIRA 13:5)

1. Laboratoriya patologicheskoy fiziologii (zaveduyushchiy - V.S. Galkin [deceased]) Instituta fiziologii im. I.P. Paylova AN SSSR. (SENSES AND SENSATION) (PATHOLOGY)

BAZANOVA, I. S.; IONTOV, A. S.; MERKULOVA, O. S.; FEDOSOVA, T. V.

Relationship between the diameter of the synapses of neurons of the anterior horns of the spinal cord in the cat and the functional state of the central nervous system. Dokl. AN SSSR 155 no. 2:474-477 Mr '64. (MIRA 17:5)

1. Institut fiziologii im. I. P. Pavlova AN SSSR. Predstavleno akademikom V. N. Chernigovskim.

L 25803-66 ACC NR: AP6015931 UR/0239/65/051/003/0309/0317 SOURCE CODE: AUTHOR: Bazanova, I. S.; Yevdokimov, S. A.; Mayorov, V. N.; Merkulova, O. S.; Chernigovskiy, V. N.-Chernigovski, V. N. ORG: Laboratory of General Physiology, Institute of Physiology im. I. P. Pavlov. Loningrad (Laboratoriya obshchey fiziologii Instituta fiziologii AN SSSR) TITIE: Morpho-electrophysiological investigation of the interneuron synapse on a living preparation of the parasympathetic ganglion of the urinary bladder of the frog SOURCE: Fiziologicheskiy zhurnal SSSR, v. 51, no. 3, 1965, 309-317 TOPIC TAGS: electrophysiology, autonomic nervous system, experiment animal Parallel morphological and electrophysiological study ABSTRACT: of interneuron synapses of the parasympathetic ganglion of the urinary bladder of the frog was carried out on living histological preparations at +2°. It was established that in the process of irritation of a synapse with electric currents of various frequencies, a hypotonic solution (Leningrad city water), and a solution of methylene blue, morphological and functional changes took place in the synapse. Conduction of nerve impulses through the synapse was retained in all stages of morphological change, although it was altered in magnitude and type. The morphological Card 1/2 612.815

contact plates) as well as the functional changes were reversible. The structural changes lagged behind the functional shifts both during their development and regression. The dynamics of stages of the structural changes observed were similar to those of stages of paranecrosis. Orig. art. has: 4 figures. [JPRS]					
SUB CODE:	06 / SUBM 1	DATE: 19Nov63	/ ORIG REF: 011	/ OTH REF: 002	

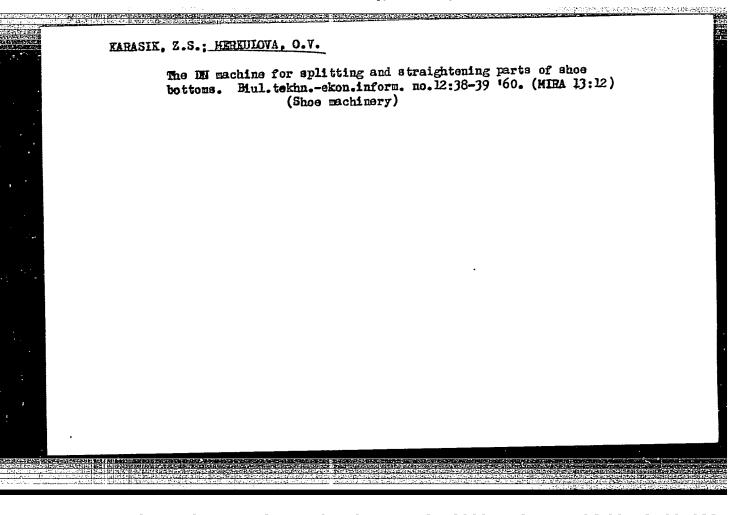
BAZANOVA, T.S.; YEVDOKIMOV, S.A.; MAYOROV, V.N.; MFRKULOVA, O.S.; CHERNICOVSKIY, V.N.

Morphological and bioelectrical changes in the interneuronal synapsis during the transmission of rhythmical impulses. Fiziel. zhur. 51 no.4:457-462 Ap 165. (MIRA 18:6)

1. Laboratoriya obshchey fiziologii Instituta fiziologii imeni Pavlova AN SSSR, Leningrad.

KARASIK, Z.S.; MERKULOVA, O.V.

The VPN machine for rumpling flat parts of shoe bottoms. Biul.tekh.ekon.inform.no.2:55-56 159.
(Shoe machinery)



MERKULOVA, P.G.

"A Collection of Printed Works on the Selection and Growing of Sorts of Grapes for Central Povolozh'ye";

dissertation for the degree of Candidate of Agricultural Sciences (awarded by the Timiryazev Agricultural Academy, 1962)

(Izvestiya Timiryazevskoy Sel'skokhozyaystvennoy Akademii, Moscow, No. 2, 1963, pp 232-236)

TELYUTIN, V.P., prefesser, dekter tekhnicheskikh mauk; PAVIOV, Tu.A., detsent, kandidat tekhnicheskikh nauk; MERKULOVA, R.F., inshemer.

Determining the starting temperature of reactions involving reduction of exides by carbon. Sher.Inst.stali 34:48-52 '55. (MIRA 9:7)

1. Mafedra metallurgii redkikh metallev. (Chemical reaction, Rate of) (Reduction, Chemical) (Radioactive tracers-Industrial applications)

MERKULOVA, W.F., Cand from Sci -- (diss) "Study of the process."

of the reduction of oxides of certain metals with parton."

Mos, 1956, 9 pt (Min of digner reducation USSR. Tos order of Labor A. F. Study of Steel in I.V. Stalin) 126 co tes

(FL, 27-17, 116-1)

- 123 -

AUTHORS:

Yelyutin, V. P., Merkulova, R. F.,

507/163-55-3-2/49

Pavlov, Yu. A.

TITLE:

Investigating the Reduction Reactions of Metal Oxides With

Carbon (Issledovaniye reaktsiy vosstanovleniya okislov

metallov uglerodom)

PERIODICAL:

Nauchnyye doklady vysshey shkoly. Metallurgiya, 1958,

Nr 3, pp 10 - 14 (USSR)

ABSTRACT:

The influence of the temperatures on the reaction velocity of the reduction of metal oxides with carbon was investigated. Activated and non-activated charcoal were used as reducing agent; it had been obtained by the inter-

action of the gas mixture  $CO_2 + C^{14}O_2$  with metallic

magnesium. The initial temperature of the interaction between carbon and metal oxides, as for instance MoO3,

 ${\rm Fe}_2{\rm O}_3$ ,  ${\rm V}_2{\rm O}_5$ ,  ${\rm Nb}_2{\rm O}_5$  and  ${\rm TiO}_2$  was determined. The reduction of  ${\rm V}_2{\rm O}_5$  was investigated at 600, 700, 800, 900 and 1000° C,

Card 1/3

the reduction of  $MoO_3$  at 500, 590, 600, 650 and  $700^{\circ}$  C,

Investigating the Reduction Reactions of Metal Oxides SOV/163-58-3-2/49 With Carbon

the reduction of  $\text{Fe}_2\text{O}_3$  at 500, 600, 700, and  $800^{\circ}$  C, and the reduction of  $\text{WO}_3$  at 900, 1000, 1100 and 1200° C.

The reduction processes take place at the same time with the increase of the reaction velocity they reach their maximum at the corresponding temperature and then slowly decrease again. The increase in temperature effects an increase of the rate of the reduction process. The kinetic curves obtained show that the reduction processes of the oxides have an autocatalytic mechanism. Based on the results obtained the apparent activation energy of the reduction processes of the oxides with metals was calculated. The following values were found for the activation energy: kcal/Mol:  $V_2O_5 - 2.3 MoO_3 - 14.3$ ,

Fe<sub>2</sub>O<sub>3</sub> - 11,7 and WO<sub>3</sub> - 18,0. The linear dependence between the initial temperatures of the reduction and the activation energy of the corresponding processes was found. There are 4 figures, 1 table, and 9 references, 3 of which are Soviet.

Card 2,3

Investigating the Reduction Reactions of Metal Oxides SOV/163-58-3-2/49 With Carbon

ASSOCIATION: Moskovskiy institut stali (Moscow Steel Institute)

SUBMITTED: February 26, 1958

Card 3/3

YELYUTIN, V.P., prof., doktor tekhn. nauk; MEEKULOVA, R.F., inzh.; PAVIOV.

Yu.A., dots., kand. tekhn. nauk.

Temperatures at the start of metal oxide reduction by solid carbon.
Sbor. Inst. stali no.38:79-87 '58.

1. Kafedra metallurgii redkhikh metallov Moskovskogo instituta
stali im. Stalina.

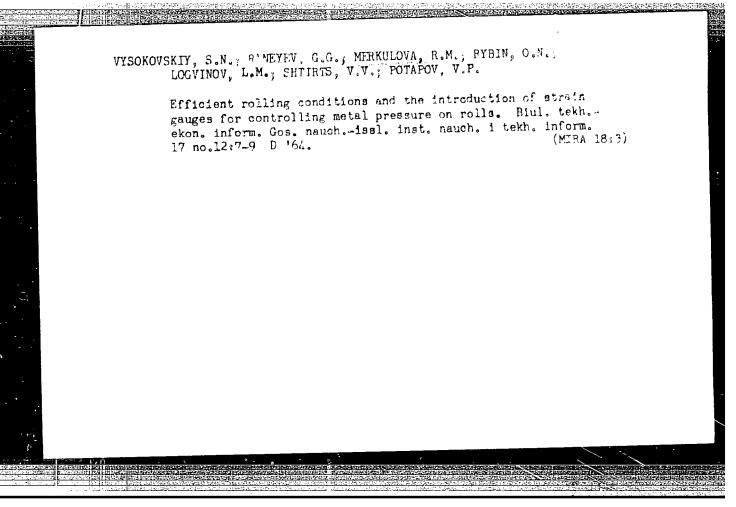
(Oxi dation-reduction reaction) (Thermometry)

(Redioisotopes—Industrial applications)

GULYAYEV, A.P.; UL'YANIN, Ye.A.; BOGOLYUBOV, V.A.; MERKULOVA, R.F.

Behavior of rare-earth metals in liquid steel. Izv. vys. ucheb. zav.; chern. met. 7 no.1:56-61 '64. (MIRA 17:2)

1. TSentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii.



RANNEY, C.G.; VYSOKOVSKIY, S.N.; MERKULOVA, E.M.; LOGVINOV, L.M.; FOTAPOV, V.I.; SHTRITS, V.V.

Using continuous operating dynomometers on strip mills.
Metallurg 10 no.6:25-27 Je '65. (MIRA 18:6,

1. Nauchno-issledovatel'skiy institut metallurgii i Ashitskiy metallurgicheskiy zavod.

L 47167-66 EWT(d)/EWT(m)/EWP(v)/EWP(t)/ETI/EWP(k)/EWP(h)/EWP(1)SOURCE CODE: UR/0137/65/000/009/D005/D005 ACC NRI AR6000437 JD\HW AUTHORS: Vysokovskiy, S. N.; Rannev, G. G.; Sokolov, V. A.; Andreyuk, L. V.; Merkulova, R. M. TITLE: Energy and temperature parameters for rolling of thin sheets from different steels and alloys on stand "1500" SOURCE: Ref. zh. Metallurgiya, Abs. 9D33 REF SOURCE: Sb. Teoriya i praktika metallurgii. Vyp. 7. Chelyabinak, 1964, 90-100 TOPIC TAGS: metal rolling, metallurgic machinery, sheet metal, stand / 1500, stand ABSTRACT: The energy and temperature parameters during hot rolling of sheets were investigated on a reversible 4-roller stand 1500. The metal pressure on the rollers, armature current, excitation current, mean square current of the motor, velocity of revolution of rollers, displacements of pressure bolts, thickness of sheets, and their temperature were determined. The results of the measurements are tabulated. Calculated results are compared with experimental data. Investigations have shown that it is possible in some cases to decrease the number of rolling operations without exceeding the maximum permissible pressure. In other cases, the redistribution of compressions between passages permitted a more uniform stand loading without exceeding the maximum permissible metal pressure on the rollers. 10 illustrations, 1 table. Bibliography of 5 citations. L. Kochenova /Translation of abstract/ SUB CODE: 13, 11

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001033

Card 1/1 eals

621.771.001

17(15)

SOV/16-59-6-31/46

AUTHORS:

Vanag, K.A. and Merkulova, S.T.

TITLE:

On Atypical Forms of Street Rabies in Man. Author's Summary.

PERIODICAL:

Zhurnal mikrobiologii, epidemiologii i immunobiologii, 1959, Nr 6,

p 124 (USSR)

ABSTRACT:

Differences of opinion exist on the etiology of postvaccinal complications which sometimes develop after antirables vaccination. Some researchers hold that they are caused by the fixed, others by the street, form of Formido inexorabilis. To help solve this problem the author adduces two case histories of persons who developed postvaccinal complications after antirables vaccinations. Study of these case histories revealed that the "complications" were, in fact, atypical paralytic forms of rabies caused by the street virus. In the absence of conclusive proof, the authors advise doctors to refrain from diagnoses, in cases of this kind,

Card 1/2

which could discredit antirables vaccination.

On Atypical Forms of Street Rabies in Man. Author's Summary.

SOV/16-59-6-31/46

ASSOCIATION: Institut virusologii imeni Ivanovskogo AMN SSSR (Institute of Virology

imeni Ivanovskiy of the AMN, USSR)

SUBMITTED:

October 6, 1958

Card 2/2

DOKTOROV, N.; MERKULOVA, T.

At the new frontier. Sov. profsoiuzy 7 no.7:30-32 Ap '59.

(MIRA 12:7)

1.Direktor Voskresenskogo khimicheskogo kombinat imeni V.V.

Kuybysheva (for Doktorov). 2.Predsedatel' zavodskogo komiteta

(for Merkulova).

(Voskresensk--Chemical industries)

LAVROVA, L., kand.tekhn.nauk; VOLOVINSKATA, V., kand.tekhn.nauk;
DYKLOP, V., kand.biol.nauk; ERYLOVA, V.; MERKULOVA, V.

Comminuting meat. Mias. ind. SSSR 29 no.1:11-14 '58.

(MIRA 11:3)

1.Vsesoyuznyy nauchno-issledovatel'skiy institut myasnoy promyshlennosti.

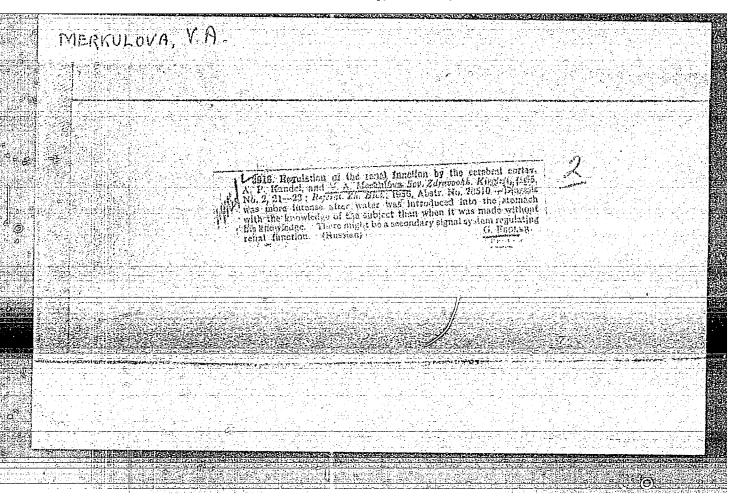
(Sausages)

VOLOVINSKAYA, V., kand. tekhn. nauk; RUBASHKINA, S.; POLETAYEV, T.; KEL'MAN, B.; MERKULOVA, V.

Improving the quality of hams during salting with the use of phosphates and sodium ascorbates and glutamates. Mias. ind. SSSR. 30 no.4:48-50 '59. (MIRA 12:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut myasnoy promyshlennosti.

(Meat, Salt)



VOLOVINSKAYA, V.I. Mand tekhn. nauk; RUBASHKINA, S.Sh., starshiy nauchnyy sotrudnik, DERGUNOVA, A.A., starshiy nauchnyy sotrudnik; SHCHEGGIEVA, O.P., mladshiy nauchnyy sotrudnik; MERKULOVA, V.K., tekhnik; PAVLOV, D.V., kand. tekhn. nauk; MATROZOVÁ, S.I., kand. khim. nauk

Use of ascorbic ac d, sodium ascorbinate and glutaminate in the production of sausages. Trudy VNIIMP no.11:76-86 '62.

1. Vsesoyuznyy nauchno-issledovatel skiy institut myasnoy promyshlennosti (for Volovinskaya, Rubas kina, Dergunova, Shchegoleva, Merkulova). 2. Moskovskiy tekhnologicheskiy institut myasnoy i molochnoy promyshlennosti (for Pavlov, Matrozova).

KUKHARKOVA, L.L., starshiy nauchnyy sotrudnik; LAVROVA, L.P., kand.

tekhn. nauk; SOLOV'YEV, V.I., kand. khim. nauk; FREYDLIN, Ye.M.,
kand. veter. nauk; PEROVA, P.V., kand. veter. nauk; SADIKOVA, I.A.,
kand. biol. nauk; KRYLOVA, V.V., starshiy rauchnyy sotrudnik;
BUSHKOVA, L.A., starshiy nauchnyy sotrudnik; RYNDINA, V.P.,
starshiy nauchnyy sotrudnik; TRUDOLYUBOVA, G.B., starshiy
nauchnyy sotrudnik; KARGAL'TSEV, I.I., assistent; MIKHAYLOVA,
A.Ye., mladshiy nauchnyy sotrudnik; KARPOVA, V.I., mladshiy
nauchnyy sotrudnik; POLETAYEV, T.N., mladshiy nauchnyy sotrudnik;
MERKULOVA, V.K., mladshiy nauchnyy sotrudnik

Directed use of microorganisms for the improvement of the quality of sausage products. Report No. 1. Trudy VNIIMP no.15: 64-75 '64. (MIRA 18:11)

1. Kafedra tekhnologii Moskovskogo tekhnologicheskogo instituta myasnoy i molochnoy promyshlennosti (for Kargal'tsev).

(MIRA 18:11)

SOLOV YEV, V.I., kand. khim. nauk; IAVROVA, I.P., kand. tekhn. nauk; SADIKOVA, I.P., kand. biol. nauk; KRYLOVA, V.V., starshiy nauchnyy sotrudnik; BUSHKOVA, L.A., starshiy nauchnyy sotrudnik; MERKULOVA, V.K., mladshiy nauchnyy sotrudnik; POLETAVEV, T.F., mladshiy naushnyy sotrudnik; KARI'OVA, V.P., inwh.-khimik; MAMAYEVA, S.A., tekhnik Studying some conditions providing for color intensity and stability in the production of smaked and cooked sausage.

Trudy VNIIMP no.16:183-201 64.

L 33181-66 EWT(1)/T/EWP(k)
ACC NR: ANOO16274 SOURCE CODE: UR/0058/65/000/011/H064/H064

AUTHOR: Merkulova, V. M. 4/

TITLE: Absorption of ultrasound in Rochelle salts near the melting point

SOURCE: Ref. zh. Fizika, Abs. 11Zh438

REF SOURCE: Sb. Primeneniye ul'traakust. k issled. veshchestva. Vyp. 20. M., 1964, 73-76

TOPIC TAGS: ultrasound absorption, absorption coefficient, malting point, relaxation process, physical diffusion

ABSTRACT: An investigation was made of the absorption of ultrasound near the melting point of single-crystal Rochelle salt, which decomposes at 560 into tartrates of Na and K, which are dissolved in the water of crystallization. The absorption of longitudinal ultrasound waves was measured along the Y axis at frequencies 16 and 75 Mcs by the pulsed echo method, in samples measuring  $20 \times 40 \times 30$  mm with faces perpendicular to the principal crystallographic axes. No amplitude dependence of the absorption coefficient was observed. The low rate of heating of the sample ensured complete thermal relaxation. The absorption coefficient  $\alpha$  is equal to  $8 \times 10^{-10}$  (cps-cm)<sup>-1</sup> for 75 Mcs and  $2.5 \times 10^{-10}$  (cps-cm)<sup>-1</sup> for 16 Mcs. Below 52C,  $\alpha$  is independent of the temperature. Plots of  $\alpha/f$  against the temperature were plotted using the average results of measurements of 4 samples. Near the melting point, in a narrow temperature interval, a sharp increase of  $\alpha$  was observed. The excess absorption

Card 1/2

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ACC NR: AR6016274

0

(relative to 52C), calculated from the  $\alpha/f$  curves, is plotted on a logarithmic scale. The excess absorption near the melting point varies with temperature in accordance with the formula  $\Delta\alpha=A$  exp(-B/T), where A and B are constants which are practically equal for both frequencies. This corresponds to the relaxation process  $\omega>\omega_R$  ( $\omega_R$  - relaxation frequency). The molecular mechanism producing the sharp increase in the absorption near the melting point is self-diffusion. The sharp rise in self-diffusion increases by several orders of magnitude to relaxation frequency of the diffusion process and leads to an increase of the absorption. I. Nikolayeva. [Translation of abstract]

SUB CODE: 20

15

Card 2/2

# "APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001033

B

ACC NR AP5017792

UR/0387/65/000/005/0075/0081 SOURCE CODE:

AUTHOR:

Merkulova, V. M.

ORG: Leningrad Mining Institute (Leningradskiy gornyy institut)

TITLE: Velocity measurements of ultrasonic waves in certain rocks

SOURCE: AN SSSR. Izvestiya. Fizika Zemli, no. 5, 1965, 75-81

TOPIC TAGS: ultrasonic wave propagation, elastic modulus, pulse generator, mineral, ULTRASONIC VELOCITY

ABSTRACT: The measurement of the velocity of propagation of ultrasonic waves of various frequencies and the effect of structural factors on the elastic properties of various rocks are investigated. Measurements were made using a pulse-phase method and ultrasonic frequencies of 10<sup>5</sup> cps and higher. The apparatus comprises a high frequency pulse generator, a synchronizer, a scanning unit, an electron ray tube, an amplifier, the metal and standard liquid lines, and radiating and radiation detecting piezoelectric crystal oscillators. The measurements utilizing the low frequency ultrasonic waves were made using the resonance method where the moment of resonance coincides with the maximum value of a signal. The data show that the velocities of propagation of ultrasonic waves in 14 samples vary from 2120 m/sec for carbonaceous shale to 7100 m/sec for peridotite and depend to some extent on the type of grain structure in the sample. The decrease in the velocity of propagation with increase in

Card 1/2

UDC: 534.22:552

APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001033

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# "APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001033

L 43037-66 EWT(1) GW SOURCE CODE: UR/0387/66/000/008/0047/0060	
AUTHOR: Merkulova, V. M.	
ORG: Leningrad Order of Lenin and Order of the Red Banner of Labor Mining Institute imeni G. V. Plekhanov (Leningradskiy ordena Lenina i ordena trudovogo Krasnogo Znameni Gornyy institut)	
TITLE: Frequency dependence of ultrasonic attenuation in rocks for the megacycle field	
SOURCE: AN SSSR. Izvestiya. Fizika Zemli, no. 8, 1966, 47-60	
TOPIC TAGS: ultrasonic field, ultrasonics sectioning, geoacoustics, acoustic ware propagation, petrology	
ABSTRACT: The frequency dependence of the attenuation factors of longitudinal and shear ultrasonic waves has been investigated for several types of rocks (gabbro-diabase, gabbro-perphyry, gabbro-gneiss, quartzite, granite, slate, and sandstone) in the 0.6—6-Mc range by the pulse-echo method. The electronic equipment used consisted of a high-frequency square-pulse generator of 100—1000-v signals of 1—10-msec duration, a wide-band amplifier with a cathode follower at the input and the output, a 0—61-db attenuator, and an oscilloscope. Piezoelectric quartz transducers were used to generate and receive the signals.	
Card 1/2 UDC: 534.22:552	
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L 43037-66

ACC NR: AP6029667

Experiments have shown that the attenuation factor of ultrasonic waves in rocks is equal to the sum of losses due to scattering  $\alpha^{S}$  and dissipative absorption  $\alpha^{\mathbf{a}}$ . In the Mc range scattering by grains predominates even though ultrasonic attenuation depends on both the operating frequency and rock granularity. For f  $\geq$   $\overline{D}$  ( $\lambda$  is the wavelength and  $\overline{D}$  is the average grain size),  $\alpha^2 \sim f^2$  and scattering by polycrystalline samples is greater than by microcrystalline samples. When  $\lambda \leq D$  the frequency dependence is weaker than parabolic, and microcrystalline samples cause greater scattering of sound waves. When  $\lambda \geq D$  Huntington's stochastic theory developed for polycrystalline metals applies to acoustic scattering in rocks, and wave attenuation results from phase fluctuations. The dissipative absorption can be expressed by the following relationship: a a/f = constant. For many rock samples  $\alpha$  (a)  $t/\alpha$  (a) 1 =  $3v_1^3/4v_t^3$ , which indicates the importance of shear deformation in the absorption process. Orig. art. has: 15 formulas [ DM ] 9 figures, and 2 tables.

SUB CODE: 08/ SUBM DATE: 27Jan66/ ORIG REF: 006/ OTH REF: 004

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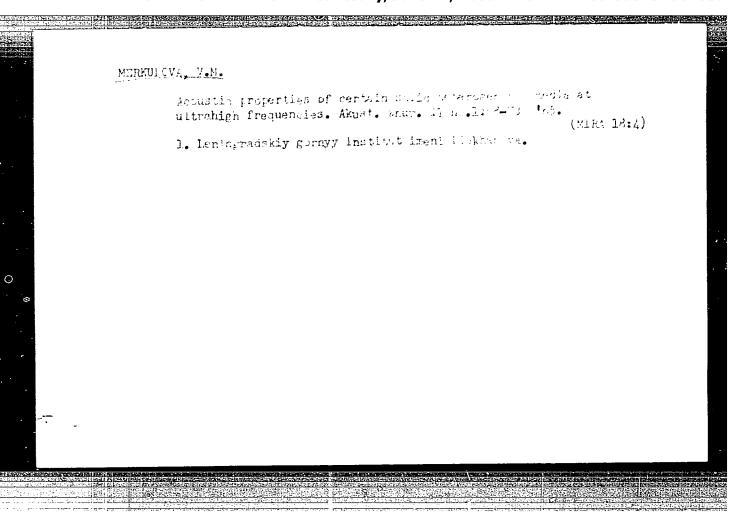
Card 2/2

MERKULOVA, V. N.

Dissertation: "Utilization of Lean Curds for the Production of Helted Cheese." Cand Agr Sci, Moscow Acad of Agriculture, Moscow 1953

W-30298

SO: Referationry Zhurnal, No. 5, Dec 1953, Moscow, AN USSR (WILLIAM)



EWT(1)/EWT(m)/BDS/ES(j) AMD/AFFTC/ASD AR/K

ACCESSION NR: AR3005191

\$/0272/63/000/007/0168/0168

SOURCE: RZh. Metrologiya i izmer. tekhnika. Otd. vy\*p., Abs. 7.32.1145

AUTHOR: Kozlov, V. F., Merkulova, V. S.

TITLE: Improving the sensitivity of the IFK-3 method and the determination of measurement accuracy with this method

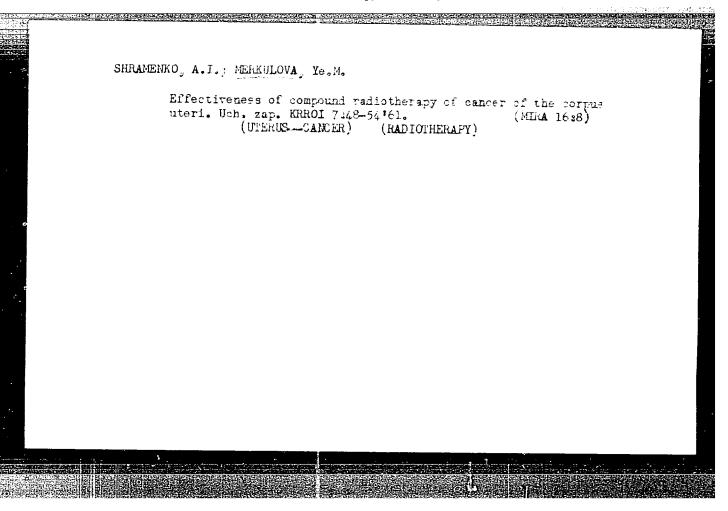
CITED SOURCE: Sb. rabot po nekotory\*m vopr. dozimetrii i radiometrii ionizir. izlucheniy. Vy\*p. 2. M., Gosatomizdat, 1961, 23-31

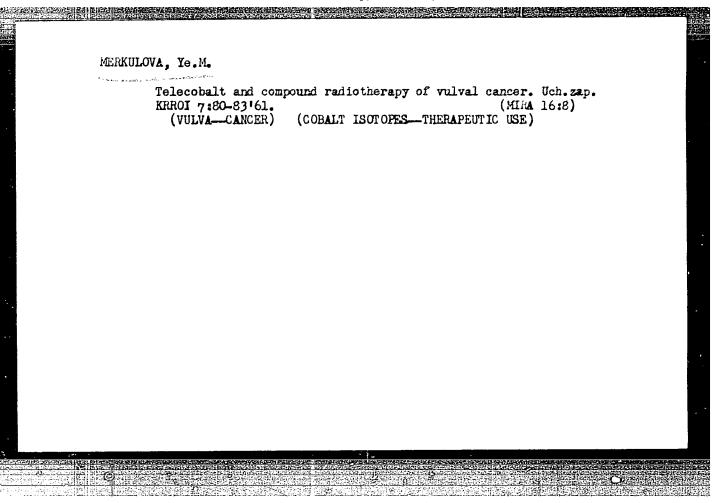
TOPIC TAGS: radiometric sensitivity, individual photodosimetry, dosimetry, quinonethiosulfate sensitizer

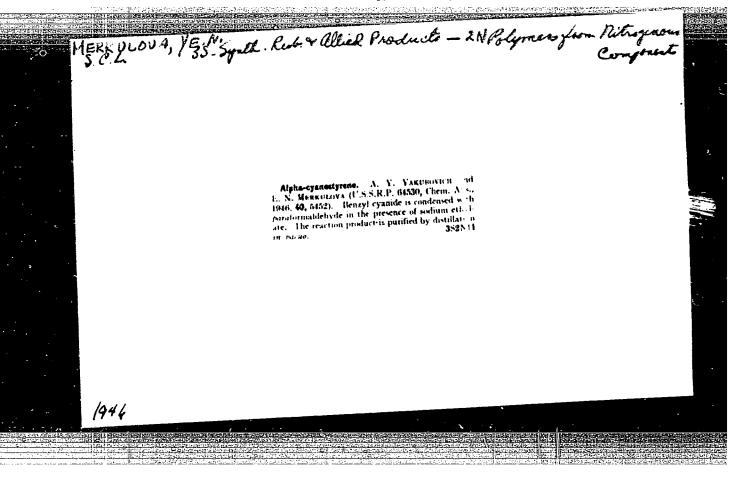
TRANSLATION: To determine the measurement accuracy and lower sensitivity limit of the IFK individual photodosimetry technique, the authors obtained 30 runs of standardized x-ray films of the "XX" type (with 10 films in each run) in the dose range from 0.05 to 3.00 roentgens. The results are tabulated. The IFK-3 method affords reliable measurements of Y-irradiation starting with an 0.02 roentgen dose, with a 22% error in the determination of such a dose. The use of

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FERKULOVA. TE. N.

Enlatoring! slke! ketones. A. Va. Vakubovich and R. N. Merkuloya. J. Gen. Chem. (U.S.S.R.) 16, 55-60 (1946).—AcCl (24 g.) in 40 g. CCl, was treated with stirring and ice-cooling with a stream of CtH<sub>2</sub> concurrently with slow addn. of 50 g. AlCl, over 1 hr. The addn. of CtH<sub>2</sub> was stopped after 11-12 hrs. after which the mixt. was treated with ice-water and was extd. with Et<sub>2</sub>O to yield 18 g. Me 2-chlorovinyl kelone, b<sub>12-23</sub>38-9°, d½° 1.9358, n½° 1.4683; the product slowly loses HCl and changes into a dark viscous mass; semicarbazane, m. 118-19°. PhNH<sub>2</sub> (22 g.) in 50% Et<sub>2</sub>O soln., treated with 12.5 g. of the ketone in Et<sub>2</sub>O and allowed to stand overnight, yielded 13.5 g. MeC(:NPh)CH: CHNIPh, m. 180-0.5° (from EtOH-Et<sub>2</sub>O); pyridinium sall (by mixing the reagents in Et<sub>2</sub>O), m. 168°. Use of CICH<sub>2</sub>COCl in the above reaction gave chlorominyl 2-chloroxinyl ketone, b<sub>11</sub> 71-2.5°, d½° 1.3486, n½° 1.5070; semicarbazane, m. 124-5°. HOCH-CH<sub>2</sub>CN (37 g.) was added slowly to 68 g. SOCl; in 33.3 g. CHCl<sub>3</sub> and boiled for 0.5 hr. to yield 80% β-chloropropionitile, b<sub>20</sub> 70°, which was heated with coned. HCl in a stream of HCl for 3.5 hrs. to yield β-chloropropionic acid, b<sub>20</sub> 105-7° m. 34-6°, which was heated at 100-10° with PCl<sub>2</sub> to yield the corresponding chloride (1), b<sub>20</sub> 70°. 1 (17.8 g.) in 30 g. CCl<sub>2</sub> treated with CH<sub>3</sub> and cherisel-above in the presence of 18.84 g. AlCl<sub>3</sub> yielded 2-chlaropinyl 2-chlorochyl kelone, b<sub>12-16</sub> 100-1° (6 g.), d½° 1.2862, n½° 1.5002; semicarbazane, m. 160-70° (deco<sub>4,19</sub>n.). G. M. Kosolapoff

MERKULOVA, YE. N.

USSR/Chemistry - Cyanobydrins Chemistry - Acetylation Feb 1948

"Acetylization of Alpha-Cyanohydrins," A. Ya. Yakubovich, V. A. Rubenko, Ye. W. Kerkulova, 5 pp

"Zhur Prik Khim" Vol XXI, No 2

Studies of acetylization of alpha-cyanophdrins of acetic acid with acetyl chloride and ketone. Determined that acetylization was better with ketone as the output of acetate was 73% of the computed amount.

Submitted 27 Oct 1946

PA 64T14

## "APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001033

MERKULOVA, VE. W.

Sprithesic of heterodografic compounds of the sliphatic series by the diago mathod. V. Bruthesia of compounds of the sliphatic series by the diago mathod. V. Bruthesia of compounds of the sliphatic series by the diago mathod. V. Bruthesia of compounds of the sliphatic series by the diago mathod. V. Bruthesia of compounds of the sliphatic series by the diago mathod. V. Bruthesia of compounds of the sliphatic series by the diago mathod. V. Bruthesia of compounds of the sliphatic series by the diago. When the sliphatic series by the sli

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CI

CIA-RDP86-00513R001033

5.(2) AUTHORS:

Klimova, V. A., Merkulova, Ye. N.

SOY/62-59-5-4/40

TITLE:

On the Simultaneous Determination of Carbon, Hydrogen, and Halogens (Ob odnovremennom opredelenii ugleroda, vodoroda i

galoidov)

PERIODICAL:

Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk,

1959, Nr 5, pp 781 - 786 (USSR)

ABSTRACT:

In the simultaneous determination of carbon, hydrogen, and has logens, halogens were so far determined in a quartz tube lived with silver foil or a silver grid (absorption of the halogen by silver) (Refs 2,3). There was, however, always an error up to + 0.6%. The error was attributed to the heavy quartz apparatus which rendered the weighing inaccurate. Moreover, the authors noticed that the silver halide being formed melts al-

ready at the applied temperatures of  $500-550^{\circ}$  and affects the quartz of the apparatus. They attributed a part of the error of the determination of the halogen to this fact. In order to prevent a contact between silver halide and quartz and to reduce the weight of the absorption apparatus metal shuttles had been used already by others (Denstedt (Ref 4) and others (Ref

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APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001033

On the Simultaneous Determination of Carbon, Hydrogen, SOV/62-59-5-4/40 and Halogens

5)). The authors used platinum shuttles lined with silver foil. The measuring error observed with this method was only  $\pm$  0.3%. The determination values obtained are summarized in tables 1 and 2. However, also this method shows some deficiencies. The authors decided to precipitate the silver used in the absorption of the halogens electrolytically in the shuttles and to

work at lower temperatures (410-440°). This method showed good results and could also be used in the simultaneous determination of four different elements, e.g. of silicon and boron-organic compounds. Corresponding data are shown in table 3. The experimental part shows the scheme for obtaining the electrolytical silver precipitate in figure 1, the devices for the simultaneous and express determination of the elements mentioned in figures 2 and 3. There are 3 figures, 3 tables, and 7 references, 4 of which are Soviet.

Card 2/3

On the Simultaneous Determination of Carbon, Hydrogen, SOV/62-59-5-4/40 and Halogens

ASSOCIATION: Institut organicheskoy khimii im. N. D. Zelinskogo Akademii

nauk SSSR (Institute of Organic Chemistry imeni N. D. Zelinskiy

of the Academy of Sciences, USSR)

SUBMITTED: July 16, 1959

Card 3/3

KLIMOVA, V.A.; MERKULOVA, Ye.N.

Preparation of finely dispersed silver for the microchemical analysis of elements. Zhur anal khim. 17 no.1:142 Ja-F '62. (MIRA 15:2)

1. N.D.Zelinsky Institute of Organic Chemistry, Academy of Sciences U.S.S.R., Moscow. (Chemistry, Analytical) (Silver)

MERKULOVA, Ye. P., Cand Phys-Math Sci -- (diss) "Task of optimizing an automatic regulating system containing essentially non-linear elements." Moscow, 1960. 6 pp; (Moscow State Order of Lenin and of Labor Red Banner Univ im M. V. Lomonosov, Physics Faculty); 120 copies; price not given; bibliography at end of text; (KL, 17-60, 139)

POHOMAREV, P.U.; VAL'TSEV, A. M.; MASONOV, M.A.; MERKULOVA, Ye. S.; SAVCHENKO, A.S.; DUKHANIN, A.S.; AKHTYRSKIY, V.I.

Rolling of square blanks made by continuous casting. Biul. TSNIICEM no. 8:43 158. (MIRA 11:7)

1. Kramatorskiy metallurgicheskiy zavod im. Kuybysheva(for Ponomarev, Val'tsev, Masonov, Merkulova, Savchenko). 2. TSentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii(for Dukhanin, Akhtyrskiy).

(Rolling(Metalwork))

1.5(2) AUTHORS:

Kaynarskiy, I. S., Crlova, I. G.,

SOV/131-59-4-9/16

Merkulova, Ye. V.

TITLE:

The Pressing of Refractories Containing Graphite and Carborundum in Thermoplastic State (Pressovaniye grafit- i karborundsoderzhashchikh ogneuporov v termoplastichnom

sostoyanii)

PERIODICAL:

Ogneupory, 1959, Nr 4, pp 173-180 (USSR)

ABSTRACT:

In the present paper the results of pressing graphite- and carborundum-containing masses are described which were made thermoplastic by means of addition's of fireproof clay. The blanks were pressed by means of a unit which is presented in figure 1. Experiments with graphite KLZ-2 showed that it is possible to obtain first-rate products by pressing graphite-

clay-containing masses in thermoplastic state (Table 1), especially when using ground graphite the structure was improved (Table 2). At an amount of pressure applied of 75 kh/cm<sup>2</sup>

products of different density and porosity, depending on graph-

ite content and pressure temperature, are obtained from graphitic-argillaceous masses (Table 3). The influence exerted by the graphite content of the masses upon the

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The Pressing of Refractories Containing Graphite and Carborundum in Thermoplastic State

SOV/131-59-4-9/16

apparent porosity of the samples is presented in figures 2 and 3. The dependence of the breaking strength under pressure of the graphitic-argillaceous samples on the graphite content within the mass is demonstrated in figure 4. The interrelation between the breaking strength under pressure and the apparent porosity of graphitic-argillaceous samples are given in figure 5. The properties of graphitic-argillaceous refractories pressed in thermoplastic state at a temperature of 1300° are listed in table 4; figure 6 gives the model of a graphiticargillaceous stopper for steel casting. Further carborundumargillaceous refractories were investigated which were pressed in thermoplastic state at a temperature of  $1300^\circ$  and an amount of 100 kg/cm2 of pressing applied (Table 5). The density and deformation of graphite-carborundum-argillaceous pressed refractories are presented in table 6 and their properties in table 7. Finally the authors of this article state that this pressing method has considerable advantages as compared with the method of hot pressing, which are based on various physicochemical processes. There are 6 figures, 7 tables, and 1 Soviet reference.

Card 2/3

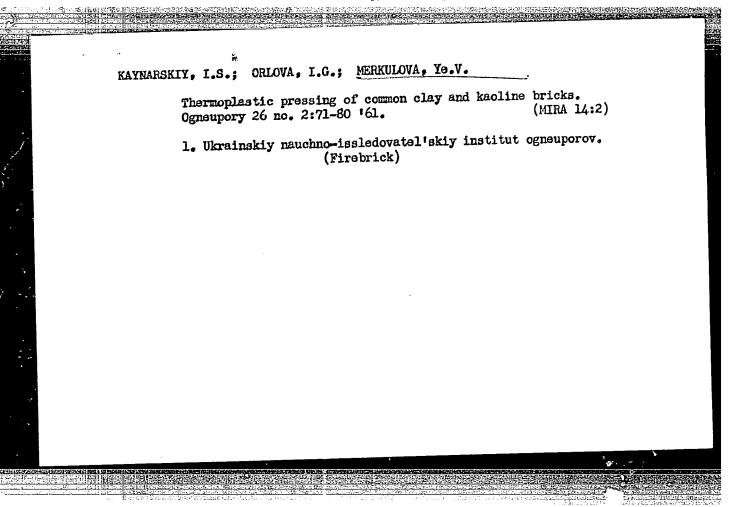
The Pressing of Refractories Containing Graphite SOV/131-59-4-9/16 and Carborundum in Thermoplastic State

ASSOCIATION: Ukrainskiy nauchno-issledovatel'skiy institut ogneuporov (Ukrainian Scientific Research Institute of Refractories)

Card 3/3

KAYNARSKIY, I.S.; ORLOVA, I.G.; MERKULOVA, Yo. V.

Properties of hot-pressed refractories on a basis of clay and kaolin. Sbor.nauch.trud. UNIIO no.5279-91 \*61. (MIRA 15:12) (Firebrick)



TKACHENKO, N.O.; LARIONOVA, Z.K.; MERKULOVA, Z.N.; GORDIYCHUK, M.T.
[Hordiichuk, M.I.]

Deresination of felt cones. Lah. prom. nc. 22 29-30 Ap-Je 164.
(MIRA 17:7)

5 (3)

AUTHORS:

Shevchenko, V. I., Merkulova, Zh. V.

sov/79-29-3-54/61

TITLE:

Phenyl-dichloro-phosphazo-sulfonaryls (Fenildikhlorfosfazo-

sul'fonarily)

PERIODICAL:

Zhurnal obshchey khimii, 1959, Vol 29, Nr 3, pp 1005-1008 (USSR)

ABSTRACT:

Kirsanov, A. V. (Ref 1) succeeded in synthesizing phosphazo-acyls according to the scheme  $AcNH_2 + PCl_5 \rightarrow 2HCl + AcN=PCl_3(I)$ .

He and his assistants made use of the reaction (I) (Ref 2) and obtained a series of new phosphoric acid derivatives of various kind. This reaction was, however, not exploited for the synthesis of organophosphorous compounds in which the phosphorus atom is linked with the carbon atom. The assumption that the phosphazo reaction is bound to proceed not only with PCl<sub>5</sub>, but

as well with tetrachloro-alkyl- and tetrachloro-aryl-phosphorus compounds, trichloro-dialkyl- and trichloro-diaryl-phosphorus compounds and dichloro-trialkyl- and dichloro-triaryl-phosphorus compounds was confirmed experimentally. The authors succeeded in obtaining the phenyl-dichloro-phosphazo-sulfonaryls ac-

cording to the scheme

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507/79-29-3-54/61

Phenyl-dichloro-phosphazo-sulfonaryls

 $Arso_2^{NH_2} + c_6^{H_5}Pcl_4 \longrightarrow 2Hcl + Arso_2^{N=P(c_6^{H_5})cl_2}$  (II) in the case of the reaction of the phenyl-phosphorus-tetrachlorides with the sulfo acid amides of the aromatic series. The obtained compounds are either crystalline or dense viscous liquids which decompose also during the vacuum distillation. They react easily with amines, alcohols, phenolates, and hydrolyze with water to aryl-sulfonamido-phenyl-phosphinic acids according to the scheme (III). The phenyl-dichloro-phosphazo-sulfonaryls may be synthesized as well according to the second phosphazo reaction (IV) (Refs 3,4). With and without solvent not quite pure, crystalline products (by-products) are obtained. The phenyl-dichloro-phosphazo-sulfonphenyl could be obtained according to scheme (IV) (yield 75%) and identified. The phenyldichloro-phosphazo-sulfonaryls of the type Arso<sub>2</sub>N=P(C<sub>6</sub>H<sub>5</sub>)Cl<sub>2</sub> which were obtained according to scheme (I) are given in the table. There are 1 table and 4 references, 3 of which are Soviet.

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SOV/79-29-3-54/61

Phenyl-dichloro-phosphazo-sulfonaryls

ASSOCIATION: Dnepropetrovskiy metallurgicheskiy institut (Dnepropetrovsk

Metallurgical Institute)

SUBMITTED: January 29, 1958

Card 3/3